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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,091	10/20/2003	Yuan-Chi Chang	YOR920030385US1 (8728-644)	3809
46069 7590 11/08/2010 F. CHAU & ASSOCIATES, LLC Frank Chau 130 WOODBURY ROAD WOODBURY, NY 11797			EXAMINER HARPER, ELIYAH STONE	
			ART UNIT 2166	PAPER NUMBER
			NOTIFICATION DATE 11/08/2010	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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**Supplemental
Notice of Allowability**

Application No.

10/689,091

Applicant(s)

CHANG, YUAN-CHI

Examiner

ELIYAH S. HARPER

Art Unit

2166

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/28/2010.
2. ☒ The allowed claim(s) is/are 1, 4-8, 11-15, 18-19, 22-28, 30-32, 34-36, 38-39 (renumbered as 1-28).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>1/27/2005</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. This communication is in response to the amendment filed on 6/28/2010. After a search and thorough examination of the present application and in light of the prior art made of record, claims 1, 4-8, 11-15, 18-19, 22-28, 30-32, 34-36, 38-39 (renumbered as 1-28) are allowed.

Information Disclosure Statement

2. An Information disclosure statement was filed on 1/27/2005. All references have been considered throughout prosecution.

Reason for allowance

3. The prior art does not teach or fairly suggest receiving an entity definition of a persistent storage structure, wherein the definition of the entity comprises a declaration of an object along with one or more properties of the object and a data type for each of the properties, parsing a logical structure of the declared object from the entity definition. The logical structure includes hierarchical associations between the properties and the data types, automatically generating or configuring, the persistent storage structure in a persistent storage medium based on the determined logical structure of the declared object, an interface or interface module within the persistent storage structure, wherein the interface comprises access object classes that are generated automatically to enable management of object instance data in the persistent storage structure, wherein each object is associated with a respective access object

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class for performing methods including a method for deleting the object instance data associated with the respective access object class; generating automatically, a database table within the persistent storage structure to store the object instance data, wherein the database table comprises a column for each property of the object and the column includes a counter that is incremented each time the corresponding property is accessed; and generating automatically or invoking a module upon the counter to index to a property of the object if the counter corresponding to the property exceeds a predefined threshold.

Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELIYAH S. HARPER whose telephone number is (571)272-0759. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

*/ELIYAH S HARPER/
Examiner, Art Unit 2166
September 12, 2010*